

CLAIMS

1. Digital sealer apparatus for electronic documents signature, characterized by comprehending:
- 5 fingerprint reader;
 - smart card reader;
 - digital signature generator;
 - communication interface;
 - RISC processor;
 - RAM memory;
 - 10 non-volatile memory
 - noise generator
 - digital display
 - multifunctional keyboard
2. Secure application programming interface for access to a digital sealer apparatus, characterized by
- 15 comprehending:
- a secure interface for cryptographic recording of the sealer device keys;
 - a secure interface for signatures validation of
 - 20 the sealer device; and
 - an area of the sealer device containing the encrypted keys.
3. Electronic method for fingerprint enrollment using a digital sealer apparatus, characterized by
- 25 comprehending the following steps:
- user's data capture;
 - public and private key generation in the digital sealer apparatus;
 - collection of fingerprint in the digital sealer
 - 30 apparatus;
 - generation of template in the digital sealer apparatus;

generation of a password in the digital sealer apparatus;

recording of the password in the smart card;
recording of the template in the smart card; and
5 recording of public and private key in the smart card.

4. Electronic method for digitally signing documents from a positive identification of a user, characterized by comprehending the following steps:

10 transmission of microcomputer's document to a sealer device;
collection of user's fingerprint;
generation of a template;
readout of opening password of the smart card;
15 readout of the template from a smart card;
comparison of these two templates;
generation of the digital signature; and
transmission of the signed document to the microcomputer.